

A SYSTEM AND METHOD FOR STRATEGIC POWER SUPPLY SEQUENCING
IN A COMPUTER SYSTEM

ABSTRACT OF THE DISCLOSURE

5 A system and method are provided for strategic power
supply sequencing in a computer system. The system and
method includes a plurality of processing resources that
process data and a plurality of power supplies that
provide power for the processing resources. A power
management engine adjusts the power supplies in response
to processing resource changes to optimize power
consumption. The power management engine brings online
10 power supplies to meet the demand created by bringing
online additional processing resources and brings offline
power supplies to meet the decreased demand caused by a
decrease in the number of processing resources. Also,
the power management engine rotates which power supplies
15 operate to take advantage of more efficient power
supplies and to extend the lives of the power supplies.
The power management engine also adjusts the power
supplies in advance based upon predicted demand levels
for the computer system.